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**RAW SEQUENCE LISTING**  
**PATENT APPLICATION US/08/471,622A**

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**This Raw Listing contains the General Information Section and up to the first 5 pages.**

18X1  
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## SEQUENCE LISTING

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3 (1) General Information:
4
5 (i) APPLICANT: HUSE, WILLIAM D.
6
7 (ii) TITLE OF INVENTION: SURFACE EXPRESSION LIBRARIES OF
8 HETEROMERIC RECEPTORS
9
10 (iii) NUMBER OF SEQUENCES: 76
11
12 (iv) CORRESPONDENCE ADDRESS:
13 (A) ADDRESSEE: CAMPBELL & FLORES LLP
14 (B) STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
15 (C) CITY: SAN DIEGO
16 (D) STATE: CALIFORNIA
17 (E) COUNTRY: UNITED STATES
18 (F) ZIP: 92122
19
20 (v) COMPUTER READABLE FORM:
21 (A) MEDIUM TYPE: Floppy disk
22 (B) COMPUTER: IBM PC compatible
23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
25
26 (vi) CURRENT APPLICATION DATA:
27 (A) APPLICATION NUMBER: 08/471,622
28 (B) FILING DATE: June 5, 1995
29 (C) CLASSIFICATION:
30
31 (viii) ATTORNEY/AGENT INFORMATION:
32 (A) NAME: CAMPBELL, CATHRYN A.
33 (B) REGISTRATION NUMBER: 31,815
34 (C) REFERENCE/DOCKET NUMBER: P-IX 1613
35
36 (ix) TELECOMMUNICATION INFORMATION:
37 (A) TELEPHONE: 619-535-9001
38 (B) TELEFAX: 619-535-8949
39
40
41 (2) INFORMATION FOR SEQ ID NO:1:
42
43 (i) SEQUENCE CHARACTERISTICS:
44 (A) LENGTH: 7445 base pairs
45 (B) TYPE: nucleic acid
46 (C) STRANDEDNESS: both

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PATENT APPLICATION US/08/471,622ADATE: 01/22/98  
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47 (D) TOPOLOGY: circular  
48  
49  
50  
51 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
52  
53 AATGCTACTA CTATTAGTAG AATTGATGCC ACCTTTTCAG CTCGCGCCCC AAATGAAAAT 60  
54  
55 ATAGCTAAAC AGGTTATTGA CCATTTCGCA AATGTATCTA ATGGTCAAAC TAAATCTACT 120  
56  
57 CGTTCGCAGA ATTGGGAATC AACTGTTACA TGGAATGAAA CTTCCAGACA CCGTACTTTA 180  
58  
59 GTTGCATATT TAAAACATGT TGAGCTACAG CACCAGATTC AGCAATTAAG CTCTAAGCCA 240  
60  
61 TCTGCAAAAA TGACCTCTTA TCAAAAGGAG CAATTAAAGG TACTCTCTAA TCCTGACCTG 300  
62  
63 TTGGAGTTTG CTTCCGGTCT GGTTCGCTTT GAAGCTCGAA TTAAACGCG ATATTTGAAG 360  
64  
65 TCTTTCGGGC TTCCTCTTAA TCTTTTGTAT GCAATCCGCT TTGCTTCTGA CTATAATAGT 420  
66  
67 CAGGGTAAAG ACCTGATTTT TGATTTATGG TCATTCTCGT TTTCTGAACT GTTTAAAGCA 480  
68  
69 TTTGAGGGGG ATTCAATGAA TATTTATGAC GATTCCGCAG TATTGGACGC TATCCAGTCT 540  
70  
71 AAACATTTTA CTATTACCCC CTCTGGCAAA ACTTCTTTTG CAAAAGCCTC TCGCTATTTT 600  
72  
73 GGTTTTTATC GTCGTCTGGT AAACGAGGGT TATGATAGTG TTGCTCTTAC TATGCCTCGT 660  
74  
75 AATTCCTTTT GGCCTTATGT ATCTGCATTA GTTGAATGTG GTATTCCTAA ATCTCAACTG 720  
76  
77 ATGAATCTTT CTACCTGTAA TAATGTTGTT CCGTTAGTTC GTTTTATTAA CGTAGATTTT 780  
78  
79 TCTTCCCAAC GTCCTGACTG GTATAATGAG CCAGTTCTTA AAATCGCATA AGGTAATTCA 840  
80  
81 CAATGATTAA AGTTGAAATT AAACCATCTC AAGCCCAATT TACTACTCGT TCTGGTGTTC 900  
82  
83 CTCGTCAGGG CAAGCCTTAT TCACTGAATG AGCAGCTTTG TTACGTTGAT TTGGGTAATG 960  
84  
85 AATATCCGGT TCTTGTCAAG ATTACTCTTG ATGAAGGTCA GCCAGCCTAT GCGCCTGGTC 1020  
86  
87 TGTACACCGT TCATCTGTCC TCTTCAAAG TTGGTCAGTT CGGTTCCCTT ATGATTGACC 1080  
88  
89 GTCTGCGCCT CGTTCCGGCT AAGTAACATG GAGCAGGTGG CGGATTTCTA CACAATTTAT 1140  
90  
91 CAGGCGATGA TACAAATCTC CGTTGTACTT TGTTTCGCGC TTGGTATAAT CGCTGGGGGT 1200  
92  
93 CAAAGATGAG TGTTTTAGTG TATTCTTTTCG CCTCTTTCGT TTTAGGTTGG TGCCTTCGTA 1260  
94  
95 GTGGCATTAC GTATTTTACC CGTTTAATGG AACTTCCTC ATGAAAAAGT CTTTAGTCCT 1320  
96  
97 CAAAGCCTCT GTAGCCGTTG CTACCCTCGT TCCGATGCTG TCTTTCGCTG CTGAGGGTGA 1380  
98  
99 CGATCCCGCA AAAGCGGCCT TTAACCTCCT GCAAGCCTCA GCGACCGAAT ATATCGGTTA 1440

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|     |             |            |            |            |            |             |      |
|-----|-------------|------------|------------|------------|------------|-------------|------|
| 100 |             |            |            |            |            |             |      |
| 101 | TGCGTGGGCG  | ATGGTTGTTG | TCATTGTCGG | CGCAACTATC | GGTATCAAGC | TGTTTAAGAA  | 1500 |
| 102 |             |            |            |            |            |             |      |
| 103 | ATTACCTCG   | AAAGCAAGCT | GATAAACCGA | TACAATTAAA | GGCTCCTTTT | GGAGCCTTTT  | 1560 |
| 104 |             |            |            |            |            |             |      |
| 105 | TTTTTGGAGA  | TTTCAACGT  | GAAAAAATTA | TTATTCGCAA | TTCCTTTAGT | TGTTCCCTTTC | 1620 |
| 106 |             |            |            |            |            |             |      |
| 107 | TATTCTCACT  | CCGCTGAAAC | TGTTGAAAGT | TGTTTAGCAA | AACCCCATAC | AGAAAATTCA  | 1680 |
| 108 |             |            |            |            |            |             |      |
| 109 | TTTACTAACG  | TCTGGAAAGA | CGACAAAAC  | TTAGATCGTT | ACGCTAACTA | TGAGGGTTGT  | 1740 |
| 110 |             |            |            |            |            |             |      |
| 111 | CTGTGGAATG  | CTACAGGCGT | TGTAGTTTGT | ACTGGTGACG | AAACTCAGTG | TTACGGTACA  | 1800 |
| 112 |             |            |            |            |            |             |      |
| 113 | TGGGTTCCCTA | TTGGGCTTGC | TATCCCTGAA | AATGAGGGTG | GTGGCTCTGA | GGGTGGCGGT  | 1860 |
| 114 |             |            |            |            |            |             |      |
| 115 | TCTGAGGGTG  | GCGGTTCTGA | GGGTGGCGGT | ACTAAACCTC | CTGAGTACGG | TGATACACCT  | 1920 |
| 116 |             |            |            |            |            |             |      |
| 117 | ATTCCGGGCT  | ATACTTATAT | CAACCCTCTC | GACGGCACTT | ATCCGCCTGG | TACTGAGCAA  | 1980 |
| 118 |             |            |            |            |            |             |      |
| 119 | AACCCCGCTA  | ATCCTAATCC | TTCTCTTGAG | GAGTCTCAGC | CTCTTAATAC | TTTCATGTTT  | 2040 |
| 120 |             |            |            |            |            |             |      |
| 121 | CAGAATAATA  | GGTTCCGAAA | TAGGCAGGGG | GCATTAAC   | TTTATACGGG | CACTGTTACT  | 2100 |
| 122 |             |            |            |            |            |             |      |
| 123 | CAAGGCACTG  | ACCCCGTTAA | AACTTATTAC | CAGTACACTC | CTGTATCATC | AAAAGCCATG  | 2160 |
| 124 |             |            |            |            |            |             |      |
| 125 | TATGACGCTT  | ACTGGAACGG | TAAATTCAGA | GACTGCGCTT | TCCATTCTGG | CTTTAATGAA  | 2220 |
| 126 |             |            |            |            |            |             |      |
| 127 | GATCCATTCG  | TTTGTGAATA | TCAAGGCCAA | TCGTCTGACC | TGCCTCAACC | TCCTGTCAAT  | 2280 |
| 128 |             |            |            |            |            |             |      |
| 129 | GCTGGCGGCG  | GCTCTGGTGG | TGGTTCTGGT | GGCGGCTCTG | AGGGTGGTGG | CTCTGAGGGT  | 2340 |
| 130 |             |            |            |            |            |             |      |
| 131 | GGCGGTTCTG  | AGGGTGGCGG | CTCTGAGGGA | GGCGGTTCCG | GTGGTGGCTC | TGGTTCCGGT  | 2400 |
| 132 |             |            |            |            |            |             |      |
| 133 | GATTTTGATT  | ATGAAAAGAT | GGCAAACGCT | AATAAGGGGG | CTATGACCGA | AAATGCCGAT  | 2460 |
| 134 |             |            |            |            |            |             |      |
| 135 | GAAAACGCGC  | TACAGTCTGA | CGCTAAAGGC | AACTTGATT  | CTGTCGCTAC | TGATTACGGT  | 2520 |
| 136 |             |            |            |            |            |             |      |
| 137 | GCTGCTATCG  | ATGGTTTCAT | TGGTGACGTT | TCCGGCCTTG | CTAATGGTAA | TGGTGCTACT  | 2580 |
| 138 |             |            |            |            |            |             |      |
| 139 | GGTGATTTTG  | CTGGCTCTAA | TTCCCAAATG | GCTCAAGTCG | GTGACGGTGA | TAATTCACCT  | 2640 |
| 140 |             |            |            |            |            |             |      |
| 141 | TTAATGAATA  | ATTTCCGTCA | ATATTTACCT | TCCCTCCCTC | AATCGGTTGA | ATGTCGCCCT  | 2700 |
| 142 |             |            |            |            |            |             |      |
| 143 | TTTGTCTTTA  | GCGCTGGTAA | ACCATATGAA | TTTCTATTG  | ATTGTGACAA | AATAAACTTA  | 2760 |
| 144 |             |            |            |            |            |             |      |
| 145 | TTCCGTGGTG  | TCTTTGCGTT | TCTTTTATAT | GTTGCCACCT | TTATGTATGT | ATTTTCTACG  | 2820 |
| 146 |             |            |            |            |            |             |      |
| 147 | TTTGCTAACA  | TACTGCGTAA | TAAGGAGTCT | TAATCATGCC | AGTTCTTTTG | GGTATTCGGT  | 2880 |
| 148 |             |            |            |            |            |             |      |
| 149 | TATTATTGCG  | TTTCCTCGGT | TTCTTCTGG  | TAACCTTGTT | CGGCTATCTG | CTTACTTTTC  | 2940 |
| 150 |             |            |            |            |            |             |      |
| 151 | TTAAAAAGGG  | CTTCGGTAAG | ATAGCTATTG | CTATTTTATT | GTTTCTTGCT | CTTATTATTG  | 3000 |
| 152 |             |            |            |            |            |             |      |

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| 153 | GGCTTAACTC  | AATTCTTGTG  | GGTTATCTCT | CTGATATTAG  | CGCTCAATTA  | CCCTCTGACT | 3060 |
| 154 |             |             |            |             |             |            |      |
| 155 | TTGTTTCAGGG | TGTTTCAGTTA | ATTCTCCCGT | CTAATGCGCT  | TCCCTGTTTT  | TATGTTATTC | 3120 |
| 156 |             |             |            |             |             |            |      |
| 157 | TCTCTGTAAA  | GGCTGCTATT  | TTCATTTTTG | ACGTTAAACA  | AAAAATCGTT  | TCTTATTTGG | 3180 |
| 158 |             |             |            |             |             |            |      |
| 159 | ATTGGGATAA  | ATAATATGGC  | TGTTTATTTT | GTAAGTGGCA  | AATTAGGCTC  | TGGAAAGACG | 3240 |
| 160 |             |             |            |             |             |            |      |
| 161 | CTCGTTAGCG  | TTGGTAAGAT  | TCAGGATAAA | ATTGTAGCTG  | GGTGCAAAAT  | AGCAACTAAT | 3300 |
| 162 |             |             |            |             |             |            |      |
| 163 | CTTGATTTAA  | GGCTTCAAAA  | CCTCCCGCAA | GTCGGGAGGT  | TCGCTAAAAAC | GCCTCGCGTT | 3360 |
| 164 |             |             |            |             |             |            |      |
| 165 | CTTAGAATAC  | CGGATAAGCC  | TTCTATATCT | GATTTGCTTG  | CTATTGGGCG  | CGGTAATGAT | 3420 |
| 166 |             |             |            |             |             |            |      |
| 167 | TCCTACGATG  | AAAATAAAAA  | CGGCTTGCTT | GTTCTCGATG  | AGTGCAGTAC  | TTGGTTTAAT | 3480 |
| 168 |             |             |            |             |             |            |      |
| 169 | ACCCGTTCTT  | GGAATGATAA  | GGAAAGACAG | CCGATTATTG  | ATTGGTTTCT  | ACATGCTCGT | 3540 |
| 170 |             |             |            |             |             |            |      |
| 171 | AAATTAGGAT  | GGGATATTAT  | TTTTCTTGTT | CAGGACTTAT  | CTATTGTTGA  | TAAACAGGCG | 3600 |
| 172 |             |             |            |             |             |            |      |
| 173 | CGTTCTGCAT  | TAGCTGAACA  | TGTTGTTTAT | TGTCGTCGTC  | TGGACAGAAT  | TACTTTACCT | 3660 |
| 174 |             |             |            |             |             |            |      |
| 175 | TTTGTGCGTA  | CTTTATATTC  | TCTTATTACT | GGCTCGAAAA  | TGCCTCTGCC  | TAAATTACAT | 3720 |
| 176 |             |             |            |             |             |            |      |
| 177 | GTTGGCGTTG  | TTAAATATGG  | CGATTCTCAA | TTAAGCCCTA  | CTGTTGAGCG  | TTGGCTTTAT | 3780 |
| 178 |             |             |            |             |             |            |      |
| 179 | ACTGGTAAGA  | ATTTGTATAA  | CGCATATGAT | ACTAAACAGG  | CTTTTCTAG   | TAATTATGAT | 3840 |
| 180 |             |             |            |             |             |            |      |
| 181 | TCCGGTGTTT  | ATTCTTATTT  | AACGCCTTAT | TTATCACACG  | GTCGGTATTT  | CAAACCATTA | 3900 |
| 182 |             |             |            |             |             |            |      |
| 183 | AATTTAGGTC  | AGAAGATGAA  | GCTTACTAAA | ATATATTTGA  | AAAAGTTTTC  | ACGCGTTCTT | 3960 |
| 184 |             |             |            |             |             |            |      |
| 185 | TGTCTTGCGA  | TTGGATTTGC  | ATCAGCATTT | ACATATAGTT  | ATATAACCCA  | ACCTAAGCCG | 4020 |
| 186 |             |             |            |             |             |            |      |
| 187 | GAGGTTAAAA  | AGGTAGTCTC  | TCAGACCTAT | GATTTTGATA  | AATTCACTAT  | TGACTCTTCT | 4080 |
| 188 |             |             |            |             |             |            |      |
| 189 | CAGCGTCTTA  | ATCTAAGCTA  | TCGCTATGTT | TTCAAGGATT  | CTAAGGGAAA  | ATTAATTAAT | 4140 |
| 190 |             |             |            |             |             |            |      |
| 191 | AGCGACGATT  | TACAGAAGCA  | AGGTTATTCA | CTCACATATA  | TTGATTTATG  | TACTGTTTCC | 4200 |
| 192 |             |             |            |             |             |            |      |
| 193 | ATTAAAAAAG  | GTAATTCAAA  | TGAAATTGTT | AAATGTAATT  | AATTTTGTTT  | TCTTGATGTT | 4260 |
| 194 |             |             |            |             |             |            |      |
| 195 | TGTTTCATCA  | TCTTCTTTTG  | CTCAGGTAAT | TGAAATGAAT  | AATTCGCCTC  | TGCGCGATTT | 4320 |
| 196 |             |             |            |             |             |            |      |
| 197 | TGTAACCTGG  | TATTCAAAGC  | AATCAGGCGA | ATCCGTTATT  | GTTTCTCCCG  | ATGTAAAAGG | 4380 |
| 198 |             |             |            |             |             |            |      |
| 199 | TACTGTTACT  | GTATATTCAT  | CTGACGTTAA | ACCTGAAAAAT | CTACGCAATT  | TCTTTATTTC | 4440 |
| 200 |             |             |            |             |             |            |      |
| 201 | TGTTTTACGT  | GCTAATAATT  | TTGATATGGT | TGGTTCAATT  | CCTTCCATAA  | TTCAGAAGTA | 4500 |
| 202 |             |             |            |             |             |            |      |
| 203 | TAATCCAAAC  | AATCAGGATT  | ATATTGATGA | ATTGCCATCA  | TCTGATAATC  | AGGAATATGA | 4560 |
| 204 |             |             |            |             |             |            |      |
| 205 | TGATAATTCC  | GCTCCTTCTG  | GTGGTTTCTT | TGTTCCGCAA  | AATGATAATG  | TTACTCAAAC | 4620 |

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| 206 |            |            |            |            |            |            |      |
| 207 | TTTTAAAATT | AATAACGTTT | GGGCAAAGGA | TTTAATACGA | GTTGTCGAAT | TGTTTGTAAA | 4680 |
| 208 |            |            |            |            |            |            |      |
| 209 | GTCTAATACT | TCTAAATCCT | CAAATGTATT | ATCTATTGAC | GGCTCTAATC | TATTAGTTGT | 4740 |
| 210 |            |            |            |            |            |            |      |
| 211 | TAGTGCACCT | AAAGATATTT | TAGATAACCT | TCCTCAATTC | CTTCTACTG  | TTGATTTGCC | 4800 |
| 212 |            |            |            |            |            |            |      |
| 213 | AACTGACCAG | ATATTGATTG | AGGGTTTGAT | ATTTGAGGTT | CAGCAAGGTG | ATGCTTTAGA | 4860 |
| 214 |            |            |            |            |            |            |      |
| 215 | TTTTTCATTT | GCTGCTGGCT | CTCAGCGTGG | CACGTGTGCA | GGCGGTGTTA | ATACTGACCG | 4920 |
| 216 |            |            |            |            |            |            |      |
| 217 | CCTCACCTCT | GTTTTATCTT | CTGCTGGTGG | TTCGTTCCGT | ATTTTAAATG | GCGATGTTTT | 4980 |
| 218 |            |            |            |            |            |            |      |
| 219 | AGGGCTATCA | GTCGCGCAT  | TAAAGACTAA | TAGCCATTCA | AAAATATTGT | CTGTGCCACG | 5040 |
| 220 |            |            |            |            |            |            |      |
| 221 | TATTCTTACG | CTTTCAGGTC | AGAAGGGTTC | TATCTCTGTT | GGCCAGAATG | TCCCTTTTAT | 5100 |
| 222 |            |            |            |            |            |            |      |
| 223 | TACTGGTCGT | GTGACTGGTG | AATCTGCCAA | TGTAAATAAT | CCATTTCAGA | CGATTGAGCG | 5160 |
| 224 |            |            |            |            |            |            |      |
| 225 | TCAAAATGTA | GGTATTTCCA | TGAGCGTTTT | TCCTGTTGCA | ATGGCTGGCG | GTAATATTGT | 5220 |
| 226 |            |            |            |            |            |            |      |
| 227 | TCTGGATATT | ACCAGCAAGG | CCGATAGTTT | GAGTTCTTCT | ACTCAGGCAA | GTGATGTTAT | 5280 |
| 228 |            |            |            |            |            |            |      |
| 229 | TACTAATCAA | AGAAGTATTG | CTACAACGGT | TAATTTGCGT | GATGGACAGA | CTCTTTTACT | 5340 |
| 230 |            |            |            |            |            |            |      |
| 231 | CGGTGGCCTC | ACTGATTATA | AAAACACTTC | TCAAGATTCT | GGCGTACCGT | TCCTGTCTAA | 5400 |
| 232 |            |            |            |            |            |            |      |
| 233 | AATCCCTTTA | ATCGGCCTCC | TGTTTAGCTC | CCGCTCTGAT | TCCAACGAGG | AAAGCACGTT | 5460 |
| 234 |            |            |            |            |            |            |      |
| 235 | ATACGTGCTC | GTCAAAGCAA | CCATAGTACG | CGCCCTGTAG | CGGCGCATTA | AGCGCGGCGG | 5520 |
| 236 |            |            |            |            |            |            |      |
| 237 | GTGTGGTGGT | TACGCGCAGC | GTGACCGCTA | CACTTGCCAG | CGCCCTAGCG | CCCCTCCTT  | 5580 |
| 238 |            |            |            |            |            |            |      |
| 239 | TCGCTTTCTT | CCCTTCCTTT | CTCGCCACGT | TCGCCGGCTT | TCCCCGTCAA | GCTCTAAATC | 5640 |
| 240 |            |            |            |            |            |            |      |
| 241 | GGGGGCTCCC | TTTAGGGTTC | CGATTTAGTG | CTTTACGGCA | CCTCGACCCC | AAAAAACTTG | 5700 |
| 242 |            |            |            |            |            |            |      |
| 243 | ATTTGGGTGA | TGGTTCACGT | AGTGGGCCAT | CGCCCTGATA | GACGGTTTTT | CGCCCTTTGA | 5760 |
| 244 |            |            |            |            |            |            |      |
| 245 | CGTTGGAGTC | CACGTTCTTT | AATAGTGGAC | TCTTGTTCCT | AACTGGAACA | AACTCAACC  | 5820 |
| 246 |            |            |            |            |            |            |      |
| 247 | CTATCTCGGG | CTATTCTTTT | GATTTATAAG | GGATTTTGCC | GATTTGCGAA | CCACCATCAA | 5880 |
| 248 |            |            |            |            |            |            |      |
| 249 | ACAGGATTTT | CGCCTGCTGG | GGCAAACCAG | CGTGGACCGC | TTGCTGCAAC | TCTCTCAGGG | 5940 |
| 250 |            |            |            |            |            |            |      |
| 251 | CCAGGCGGTG | AAGGGCAATC | AGCTGTTGCC | CGTCTCGCTG | GTGAAAAGAA | AAACCACCCT | 6000 |
| 252 |            |            |            |            |            |            |      |
| 253 | GGCGCCCAAT | ACGCAAACCG | CCTCTCCCCG | CGCGTTGGCC | GATTCATTAA | TGCAGCTGGC | 6060 |
| 254 |            |            |            |            |            |            |      |
| 255 | ACGACAGGTT | TCCCGACTGG | AAAGCGGGCA | GTGAGCGCAA | CGCAATTAAT | GTGAGTTAGC | 6120 |
| 256 |            |            |            |            |            |            |      |
| 257 | TCACTCATTA | GGCACCACAG | GCTTTACACT | TTATGCTTCC | GGCTCGTATG | TTGTGTGGAA | 6180 |
| 258 |            |            |            |            |            |            |      |

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Original Text